

Appl. No. 09/730,547

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**Amendments to the Specification:**

Please replace the paragraph bridging pages 6 and 7 with the following amended paragraph:

In one embodiment, the published certificate repository 12 publishes certificates in a hierarchical manner, for example in accordance with the X.500 series of recommendations. Alternatively, the published certificate repository 12 can be arranged in any convenient fashion. The certificates may be stored in a database, in an LDAP (lightweight directory access protocol) directory, in file based storage, or in Microsoft's Active Directory, to name a few examples. The X.500 series of recommendations allows for the inclusion of a unique user name for each user referred to as a "distinguished name", or DN. It is also possible to include additional information for each user in certificate extensions, such as the "subject alternative name" extension provided by the X.500 series of recommendations. RFC 2459 (available from the Internet Engineering Task Force (IETF) see <http://www.ietf.org/rfc/rfc2459>) provides a profile of using the X.509 recommendation for Internet PKI. Conventional uses for the subject alternative name extension are described in RFC 2632 (also available from the IETF see <http://www.ietf.org/rfc/rfc2632>) which details the use of the subject alternative name extension in S-MIME. In this embodiment of the invention, a certificate extension and preferably the subject alternative name extension is used to store an addressable entity in association with each user name. The addressable entity might for example be the user's e-mail address, but it might alternatively be some other type, for example, a user's alphanumeric pager identifier. More generally, the addressable entity might be any identification of a contact channel to the particular user. Rather than the use of a certificate extension in a published certificate repository, more generally some sort of user name-addressable entity mapping needs to be made available, and preferably this is a trusted mapping in the sense that the information it contains can be trusted.

Please replace the Abstract with the following amended Abstract:

**Abstract of the Invention**

Apparatus and methods are provided for performing remote notification of records, each having a respective record identifier. ~~The method involves maintaining a~~ A record-

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user mapping which associates with each of a plurality of record identifiers identifier a respective one or more user names. For each record upon which remote notification is to be performed the record's record identifier's respective one or more user names is obtained from the record-user mapping[[.]], and ~~For~~ for each user name in the record's record identifier's respective one or more obtained user names name a respective addressable entity is obtained from a user name-addressable entity mapping, and [[a]] A notification of the record is sent to the addressable entity. ~~The user name-addressable entity mapping may be a trusted mapping. The records may be generated by a certificate management system. In this case, the addressable entities may be stored in a repository of published certificates. The certificate management system might for example be a PKI (Public Key Infrastructure). The addressable entities may be stored in a certificate extension field of the certificates, for example the subject alternative name certificate extension. The addressable entity may be an E-mail address. Target audit record processing may also be provided. For this, at least one each record identifier is identified for which target audit record processing is to be performed[[.]], a target user name is read The target-audit record processing involves for each record identifier for which target-audit record processing is to be performed reading from the associated record a target user name, a respective addressable entity is obtained obtaining from the user name-addressable entity mapping, a respective addressable entity for the target user name and sending a notification of the record is sent to the addressable entity.~~